Whirlpool

Service Manual

Washing machine
Frontloader
AWG 166/WP

Model AWG 166/WP
Version 8537 166 70130

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This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

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Subject to modification
Document-No.: 4812 712 16348

Technical data

Dimension

Height	85	cm
Width	59.5	cm
Depth	53	cm

Weight

Gross	~ 82.5	kg
Net	~ 81	kg

Main connection

Voltage	110 ± 10%	V
Frequency	60	Hz
Power Consumption	1750	W
Fuse rating	16	A

Drum data

Washing	46	rpm
Spinning	500	rpm

Capacity of dry laundry

Loading - washing max.	4.5	kg

Heating

Type	Tubular radiator	
Rated power draft:	1450	W
Voltage	110	V

Motor

Type	2/16	
Frequency	60	Hz
Voltage	110	V

Timer washing

Type	1024-08	
Frequency	60	Hz
Voltage	120	V
The timer chart includes		
2 basic programs :	- normal washing	
	- delicate washing	

Thermostat

A- fixed thermostat	33 ± 3	˚C
B- adjustable thermostat	0 - 60± 3	˚C

Pressostat (without laundry)

Wash level	~ 11 ± 1	l
Rinse level	~ 15 ± 1	l

Push button switch unit

Version with 2 buttons :

- On/off
- Half load

Spare part list

Model **AWG 166/WP**
Service No. **853716670130**
Version **853716670130**

Pos. No.	12NC Code	Description
001 0	**4819 440 19717**	Cabinet
003 0	**4819 404 43391**	Bearer hook crosspiece
011 0	**4819 462 47014**	Foot adjustable
024 0	**4819 903 03649**	Panel, rear
030 0	**4819 440 19577**	Table top
041 0	**4819 417 19231**	Hinge
054 0	**4819 903 03648**	Door,flap
054 1	**4819 535 97024**	Shaft
061 0	**4819 466 89475**	Counter weight
061 1	**4819 466 89461**	Counter weight bottom
083 0	**4819 466 47003**	Friction plate
086 0	**4819 903 03669**	Spring
086 1	**4819 502 18389**	Fastener
086 2	**4819 310 39573**	Kit fixation
086 3	**4819 466 89132**	Fastener counter weight
110 1	**4819 498 69837**	Handle cpl.
131 0	**4819 903 02498**	Pin
133 0	**4819 466 89014**	Hook
133 1	**4819 903 02505**	Pin
133 2	**4819 404 49836**	Lever Door handle
140 0	**4819 450 58319**	Door glass
143 0	**4819 903 02494**	Strap
144 0	**4819 532 78128**	Frame,door glas
144 1	**4819 459 28288**	Glassdoor frame
144 2	**4819 532 88054**	Collarring
190 0	**4819 466 69669**	Door bellow
200 0	**4819 418 49771**	Container
201 0	**4819 440 19881**	Tub cover a. bearing
201 1	**4819 532 28273**	Ring
201 2	**4819 440 19879**	Bottom
201 3	**4819 532 28274**	Ring
210 0	**4819 903 03688**	Crosspiece
220 0	**4819 418 18246**	Drum
220 1	**4819 903 03676**	Drum
271 0	**4819 358 18035**	Belt
272 0	**4819 903 03672**	Pulley
278 0	**4819 535 98468**	Shaft
291 0	**4819 903 03668**	Gasket tub
301 0	**4812 460 78984**	Control panel
303 0	**4812 462 79784**	Cover
303 1	**4819 498 69836**	Handle, drawer
320 0	**4812 452 10757**	Insert panel
331 0	**4812 412 48027**	Knob,timer
332 0	**4819 410 28605**	Button,push
335 0	**4812 412 48028**	Knob thermostat
351 0	**4812 134 48269**	Pilot lamp
401 0	**4812 361 58325**	Motor
420 0	**4812 121 18227**	Capacitor 55 µ F
421 0	**4812 121 18212**	Interf.filter
430 0	**4812 360 18507**	Pump,draining
432 0	**4819 418 49662**	Filter body
451 0	**4812 259 28794**	Heating element
483 0	**4812 321 78093**	Cable harness
490 0	**4812 321 18137**	Connect.cable USA
491 0	**4819 290 68429**	Connect.block

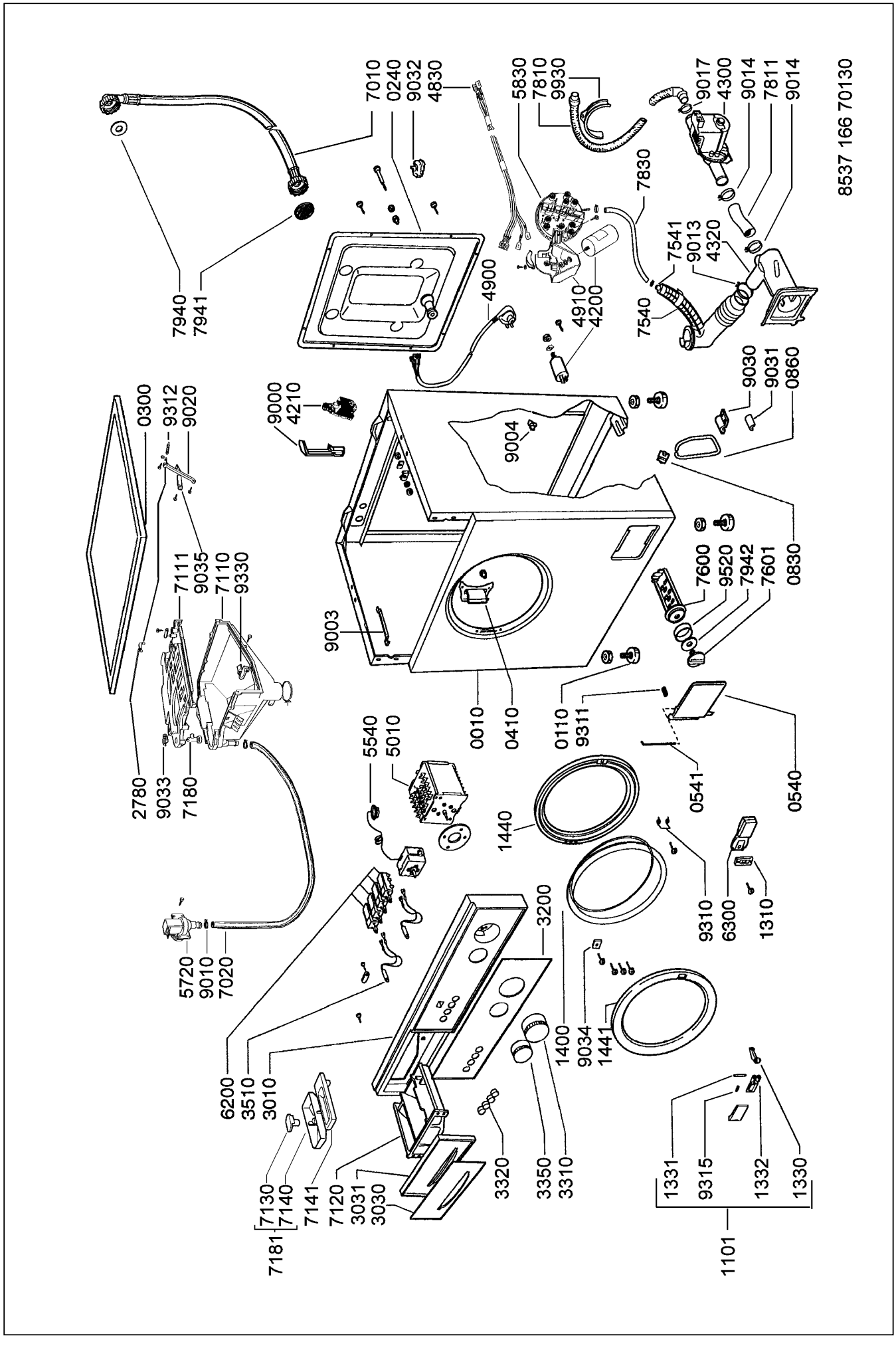
Pos. No.	12NC Code	Description
501 0	**4812 282 18866**	Timer 1024-08
551 9	**4819 282 48094**	Thermostat 33 deg.C.fix
554 0	**4819 282 38029**	Thermostat 0-60 ˚C
572 0	**4812 281 18055**	Valve,magnet cold water
583 0	**4819 271 28872**	Pressostat
620 0	**4819 276 38336**	Switch on/off
630 0	**4819 280 48009**	Door lock
701 0	**4819 530 28932**	Hose, inlet 1.5 m cold water
702 0	**4819 530 29024**	Hose, inlet
708 4	**4819 530 28545**	Drainhose inner
711 0	**4819 418 78068**	Dispenser
711 1	**4819 462 79036**	Cover dispenser housing
712 0	**4819 418 78067**	Drawer
713 0	**4819 418 78989**	Accessory deterg. fluid
714 0	**4819 418 78988**	Container liquid detergent
714 1	**4819 418 78166**	Tray bleach
718 0	**4819 360 69853**	Nozzle
718 1	**4819 310 38651**	Accessories liquid detergent
754 0	**4819 530 28862**	Drainhose
754 1	**4819 530 29038**	Chamber,air
760 0	**4819 480 58082**	Filter
760 1	**4819 462 78861**	Grip filter
781 0	**4819 530 28847**	Hose,draining
781 1	**4819 903 02515**	Hose
783 0	**4819 530 28908**	Hose Pressostat
794 0	**4819 903 04978**	Gasket
794 1	**4819 310 38057**	Gasket
794 2	**4819 532 68309**	Cover filter
900 0	**4819 535 38151**	Hook
900 1	**4819 466 98528**	Clamping piece
900 3	**4819 404 78867**	Bracket
900 4	**4819 401 13349**	Hook
901 0	**4822 401 10258**	Clamp,hose 10-18 mm
901 3	**4819 401 18351**	Clamp,hose
901 4	**4819 401 18174**	Clamp,hose 25-45 mm
901 7	**4819 401 18429**	Clamp
902 0	**4819 535 98469**	Lever
903 0	**4819 492 68392**	Clamp
903 1	**4819 903 02535**	Silent bloc
903 2	**4819 401 18348**	Holder,hose
903 3	**4819 903 02466**	Lever
903 4	**4819 466 98404**	Fastener
903 5	**4819 903 02469**	Rocker
910 1	**4819 502 18347**	Screw
912 0	**4819 502 18345**	Screw
914 0	**4819 505 13084**	Nut
921 0	**4819 532 13433**	Washer pulley
923 0	**4819 532 68707**	Washer
931 0	**4819 492 48141**	Spring
931 1	**4819 492 37027**	Spring
931 2	**4819 903 02471**	Spring
931 3	**4819 492 68872**	Spring,tension
931 5	**4819 492 48134**	Spring
933 0	**4819 903 03659**	Spring,tension
941 0	**4819 903 02544**	Bearing, kit

Spare part list

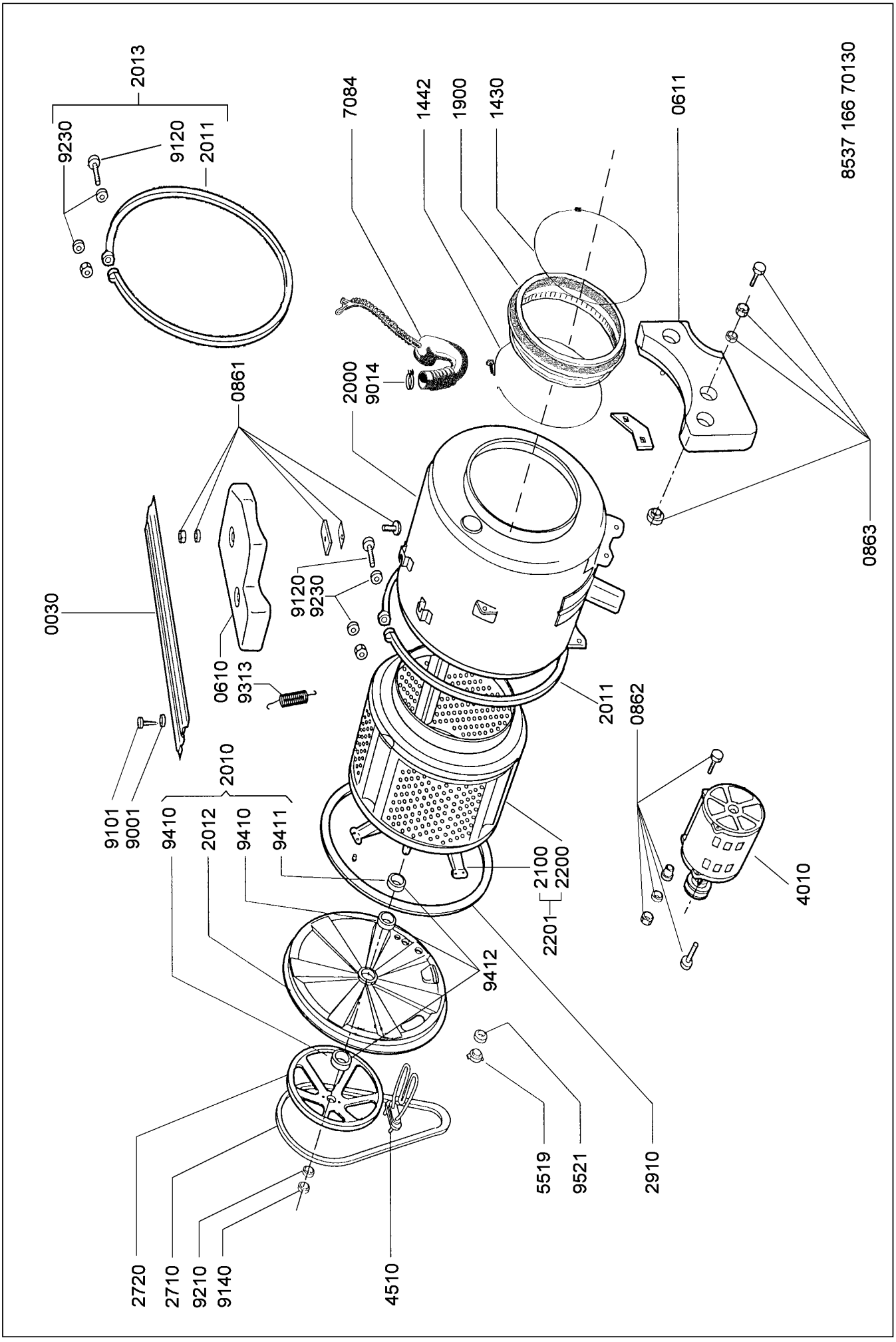
Model	**AWG 166/WP**
Service No.	**853716670130**
Version	**853716670130**

Pos. No.	12NC Code	Description
941 1	**4812 530 78048**	Shaft seal
941 2	**4819 310 38768**	Bearing, kit
952 0	**4819 466 69816**	Gasket
952 1	**4819 903 02447**	Gasket thermostat
993 0	**4819 401 18345**	Bow

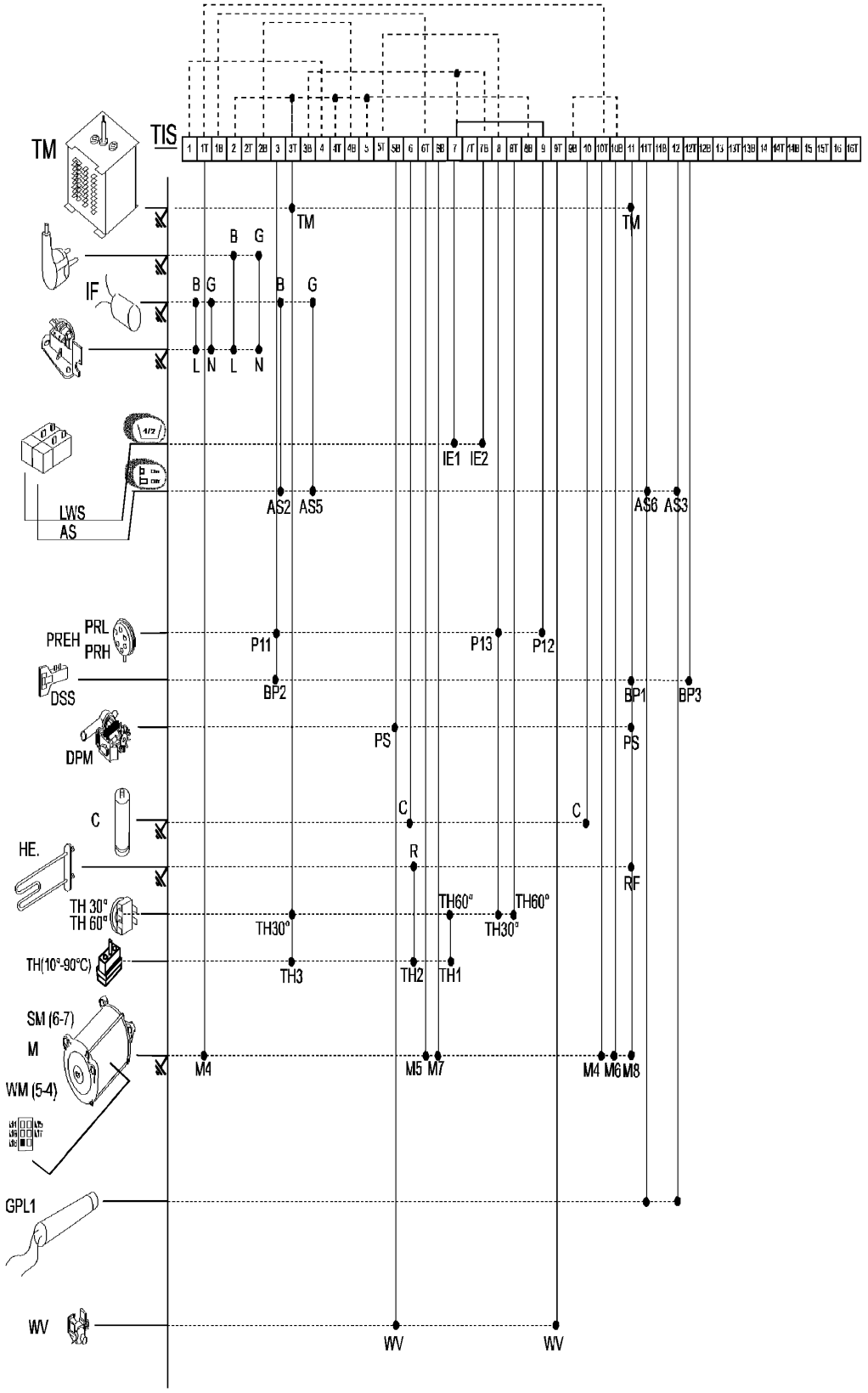
Exploded view



Exploded view



Wiring diagram



TM	Timer motor	**DSS**	Micro delay switch	**ER**	Extra rinse button	**B**	Brown
EM	Thermostop	**DPM**	Drain pump motor	**TH (10°-90°C)**	Adjustable thermostat	**G**	Blue
IF	Interference filter	**VAT**	Variable temperature	**TH**	Klixon	⏚	Yellow-Green
RSS	Spin delay button	**VSS**	Variable spin speed	**M**	Main motor		
SDE	No spin button	**TR**	Thermal resistivity	**SM**	Spin-dry motor		
LWS	Half load button	**TK**	Tachometer	**WM**	Wash motor		
e	Eco button	**WV**	Water valve	**CU**	Control unit		
CWS	Cold wash button	**CC**	Spin capacitor	**C**	Capacitor		
PRL	Low level pressostat	**CL**	Wash capacitor	**MC**	Low/high speed		
PRH	High level pressostat	**HE**	Heating element	**GPL1**	Pilot lamp		
WVC	Water valve (cold fill)	**RE**	Relay	**GPL2**	Door pilot lamp		
WVW	Water valve (hot fill)	**RF**	Heating protector				
PREH	Pressostat	**AS**	ON - OFF button				

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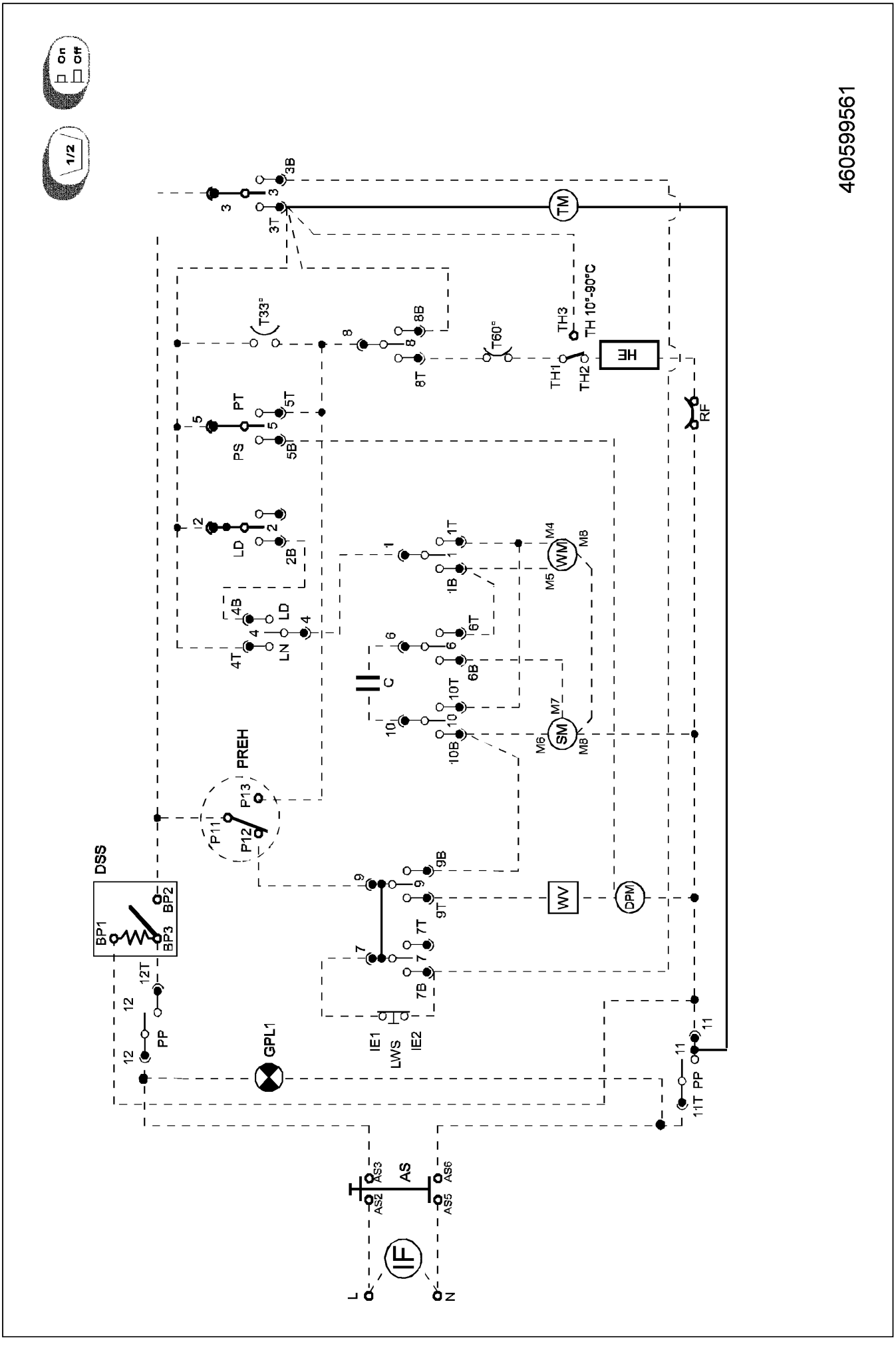
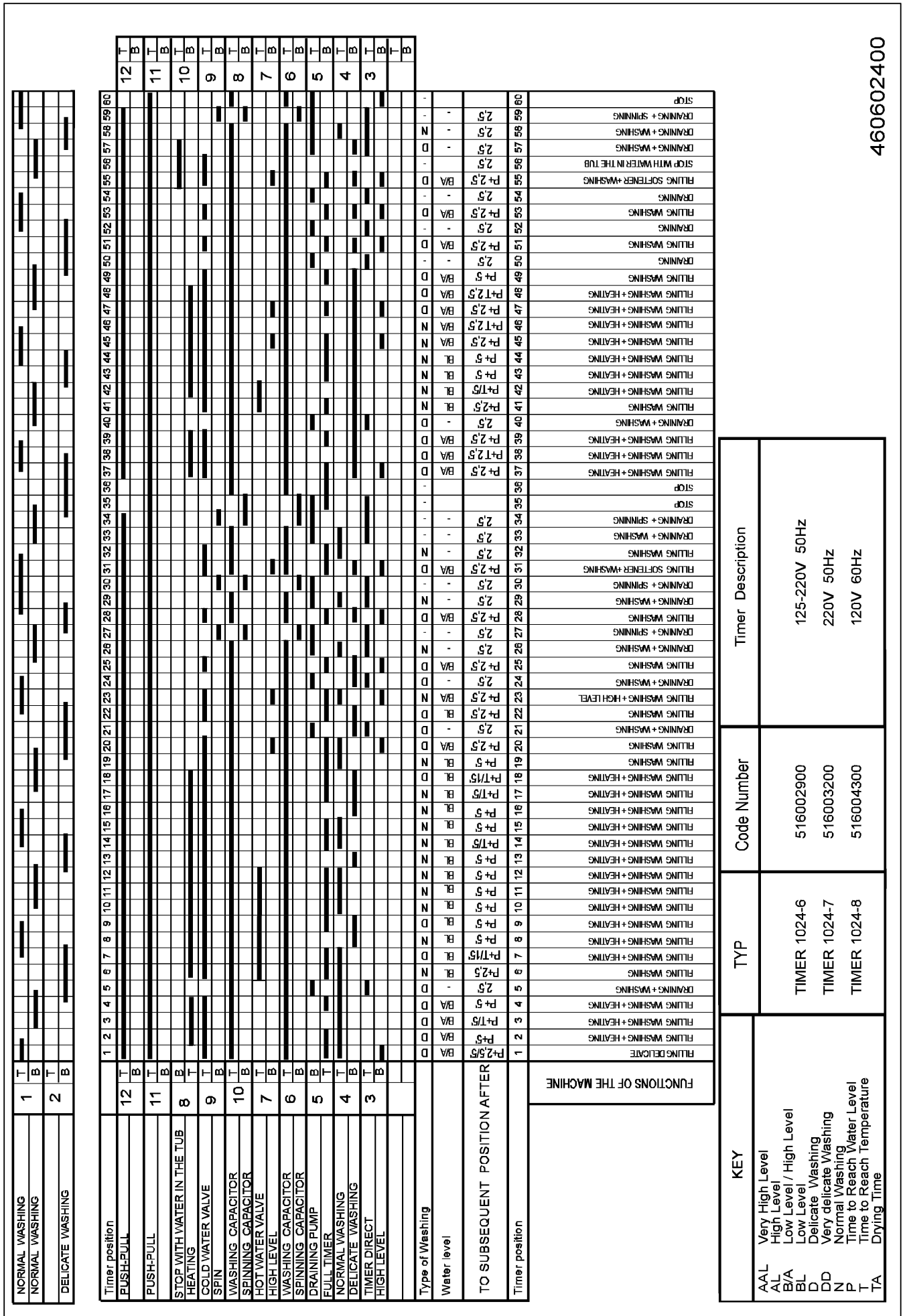
Circuit diagram



Program diagram


NORMAL WASHING
NORMAL WASHING
DELICATE WASHING
Timer position
PUSH-PULL
PUSH-PULL
STOP WITH WATER IN THE TUB
HEATING
COLD WATER VALVE
SPIN
WASHING CAPACITOR
SPINNING CAPACITOR
HOT WATER VALVE
HIGH LEVEL
WASHING CAPACITOR
SPINNING CAPACITOR
DRAINING PUMP
FULL TIMER
NORMAL WASHING
DELICATE WASHING
TIMER DIRECT
HIGH LEVEL
Type of Washing
Water level
TO SUBSEQUENT POSITION AFTER
Timer position
FUNCTIONS OF THE MACHINE
RILUNG DELICATE P+2,5/5' BA/A D
FILLING WASHING + HEATING P+T/5' BA/A D
FILLING WASHING + HEATING P+5' BA/A D
DRAINING + WASHING 2,5' - D
FILLING WASHING P+2,5' BL N
FILLING WASHING + HEATING P+T/15' BL D
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL D
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+T/5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+T/5' BL D
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING P+5' BL D
FILLING WASHING + HIGH LEVEL P+2,5' BA N
FILLING WASHING P+2,5' BL D
DRAINING + WASHING 2,5' - D
FILLING WASHING P+2,5' BA D
FILLING WASHING P+5' BL N
FILLING WASHING + HEATING P+T/5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+5' BL N
FILLING WASHING + HEATING P+T/5' BL N
FILLING WASHING + HEATING P+T/15' BL D
FILLING WASHING + HEATING P+T/5' BL N
FILLING WASHING + HEATING P+5' BL D
FILLING WASHING P+